

[Print](#) | [Close Window](#)**Subject:** FW: Grains**From:** "Tapio, Donald" <tapiod@wsu.edu>**Date:** Fri, May 10, 2013 1:19 pm**To:** "rick@saltaireinc.com" <rick@saltaireinc.com>**Attach:** image001.png

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**From:** Cogger, Craig George  
**Sent:** Friday, May 10, 2013 11:14 AM  
**To:** Tapio, Donald  
**Subject:** RE: Grains

Don,

I have attached several extension bulletins that could be useful. None perfectly fit this situation, but they are useful to get us in the ballpark. The west side corn bulletin assumes a manured system. The oats bulletin is out of Idaho, because there is not one available for the west side.

I don't know if there is a yield history with these crops on the site, but since it is the first year I would set a fairly low yield goal when working through the calculations.

Just as a best judgment estimate, the wheat and oats recommendations below seem reasonable, while the corn looks much too high for our environment.

The shrimp and crab shells should have high N availability, based on an informal study we did several years ago, and it looks like a lot of N has been released already on the application site. A pre-sidedress N test for the corn would be useful to see if additional N is needed at sidedress time.

Potassium levels in the soil samples look low. I don't know if the shrimp and crab provide much K, but supplemental K will likely be needed to make best use of the N.

Craig

Silage corn, west side

<http://extension.oregonstate.edu/catalog/pdf/em/em8978-e.pdf>

Silage and grain corn, east side

<http://www.cals.uidaho.edu/edComm/pdf/PNW/PNW0615.pdf>

Winter wheat, west side

[http://www.oregon.gov/ODA/PEST/docs/pdf/97\\_07\\_fg9.pdf](http://www.oregon.gov/ODA/PEST/docs/pdf/97_07_fg9.pdf)

Oats

<http://www.cals.uidaho.edu/edComm/pdf/CIS/CIS1135.pdf>

Craig Cogger  
WSU Puyallup  
253-445-4512  
<http://www.puyallup.wsu.edu/soilmgmt/Default.htm>

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**From:** Tapio, Donald  
**Sent:** Thursday, May 09, 2013 5:28 PM  
**To:** Cogger, Craig George  
**Subject:** FW: Grains

Craig-

Can you provide any of this requested info regarding uptake of N by cereal grains?

DO n

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**From:** [rick@saltaireinc.com](mailto:rick@saltaireinc.com) [<mailto:rick@saltaireinc.com>]  
**Sent:** Thursday, May 09, 2013 12:24 PM  
**To:** Tapio, Donald; Jones, Stephen Scott  
**Cc:** [lucas.patzek@email.wsu.edu](mailto:lucas.patzek@email.wsu.edu); Terry Vicki; [kim@saltaireinc.com](mailto:kim@saltaireinc.com)  
**Subject:** RE: Grains

Good Morning Don:

Do you have an idea on how many acres you would be interested in test plots for fall 2013 and spring 2014 planting.

I am enclosing a copy of the most recent soil tests, on the area where we have applied a majority of the crab and shrimp shells. Based on the soil tests we have a range of applied nitrogen from shells at a low of 13.65 to high of 120 pounds per acre on approximately 20 acres. The original soil test in march of 2012 shows the nature pasture grass nitrogen levels around 14 pounds per acre.

We are looking at seeding several small fields to oats, wheat, corn and (possibly safflower if I can obtain some seed). I might run to Fresno to pick up seed for safflower if needed.

Based on cost studies I have come up with from WSU, OSU and UC Davis, I have developed a chart showing the nitrogen requirements for various crops being considered.

Can you provide your recommendations on how much nitrogen fertilizer would be required for our agronomic rate for this summer planting of the following crops which I know the seed is available. I am showing what rates I have found from various cost studies.

Oats	75#/ac N required
Wheat	120#/ac N required
Corn	350#/ac N required

I understand that the fertilizer requirement is based on a number of variables, including soil types, climate, and most especially yields.

The small fields which recently had crab shells applied are averaging about 100#/ac of nitrogen right now.

We would like to provide to the County and Department of Ecology an estimate of the crop uptake on fields we plant now.

I am having the lab which completed our soils tests do the same.

We need to seed the fields with the highest N levels, however, we can plant only portions and leave other for fall for your test plots. We should be able to have side by side comparisons for your trials if you would like.

Let me know your thoughts.

Thanks,

Richard M. Bambauer  
President  
Salt Aire, Inc.  
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*salt aire*

----- Original Message -----

Subject: RE: Grains

From: <[rick@saltaireinc.com](mailto:rick@saltaireinc.com)>

Date: Wed, May 01, 2013 3:29 pm

To: "Tapio, Donald" <[tapiod@wsu.edu](mailto:tapiod@wsu.edu)>, "Jones, Stephen Scott" <[joness@wsu.edu](mailto:joness@wsu.edu)>

Cc: "[lucas.patzek@email.wsu.edu](mailto:lucas.patzek@email.wsu.edu)" <[lucas.patzek@email.wsu.edu](mailto:lucas.patzek@email.wsu.edu)>, "Terry Vicki" <[fvtriciarae@gmail.com](mailto:fvtriciarae@gmail.com)>, [kim@saltaireinc.com](mailto:kim@saltaireinc.com)

Don and Steve:

Thanks for getting back to us. We are very interested in conducting some test plots.

As you are aware, we have been applying crab and shrimp shells as organic compost on the property. I should have the current soil test any day which I will forward to you.

We need to implement a crop program to ensure we do not apply more plant available nitrogen to the soil from shells. Presently, all of the shells have been disced into the soil.

We look forward to meeting with you to discuss various options with you.

Thanks again.

Richard M. Bambauer  
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----- Original Message -----

Subject: RE: Grains

From: "Tapio, Donald" <[tapiod@wsu.edu](mailto:tapiod@wsu.edu)>

Date: Wed, May 01, 2013 2:49 pm

To: "Jones, Stephen Scott" <[joness@wsu.edu](mailto:joness@wsu.edu)>

Cc: "[rick@saltaireinc.com](mailto:rick@saltaireinc.com)" <[rick@saltaireinc.com](mailto:rick@saltaireinc.com)>,  
"[lucas.patzek@email.wsu.edu](mailto:lucas.patzek@email.wsu.edu)" <[lucas.patzek@email.wsu.edu](mailto:lucas.patzek@email.wsu.edu)>

Steve-

Thanks so much for the quick response. I'll check with the farm owner to see if he is amenable to some fall and spring research plots including both cereal grains and beans.

Don

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**From:** Jones, Stephen Scott

**Sent:** Wednesday, May 01, 2013 2:16 PM

**To:** Tapio, Donald

**Cc:** Patzek, Lucas Jan

**Subject:** Grains

Hi Don, we do want to get a trial in down there, it would need to be fall as we are all in already with the springs and do not have any seed for trials remaining. Can we plan for fall and next spring? We'd probably want to add some early maturing beans for next year as well, steve

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